

TECHSPEC<sup>®</sup> 50mm Dia 0.42 NA, UV Coated, UV Fused Silica Aspheric Lens



TECHSPEC UV Fused Silica Aspheric Lenses



Stock **#67-273 4 In Stock**

☐ [Other Coating Options](#)

-

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+

A\$1,518<sup>40</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$1,518.40 each              |
| Qty 6-10       | A\$1,368.00 each              |
| Qty 11-25      | A\$1,272.00 each              |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

|                           |                      |
|---------------------------|----------------------|
| 50.00 +0.0/-0.1           |                      |
| Centering (arcmin):       | ≤5                   |
| Clear Aperture CA (mm):   | 45                   |
| Edge Thickness ET (mm):   | 4.42                 |
| Center Thickness CT (mm): | 17.00 ±0.1           |
| Bevel:                    | Protective as needed |
| Shape of Back Surface:    | Plano                |

| Optical Properties                   |                                             |
|--------------------------------------|---------------------------------------------|
| Effective Focal Length EFL (mm):     | 60.00 @ 587.6nm                             |
| Numerical Aperture NA:               | 0.42                                        |
| Back Focal Length BFL (mm):          | 48.34                                       |
| Substrate: <input type="checkbox"/>  | <a href="#">Fused Silica</a> (Corning 7980) |
| Aspheric Design Wavelength (nm):     | 587.6                                       |
| Asphere Figure Error, RMS @ 632.8nm: | 1.2λ                                        |
| Coating:                             | UV (250-425nm)                              |
| Coating Specification:               | R <sub>avg</sub> ≤1.5% @ 250 - 425nm        |
| Surface Quality:                     | 60-40                                       |
| f/#:                                 | 1.2                                         |
| Wavelength Range (nm):               | 250 - 425                                   |
| Conjugate Distance:                  | Infinite                                    |
| Power (diopters):                    | 16.67                                       |

| Regulatory Compliance       |                           |
|-----------------------------|---------------------------|
| RoHS 2015:                  | <a href="#">Compliant</a> |
| Certificate of Conformance: | <a href="#">View</a>      |
| Reach 235:                  | <a href="#">Compliant</a> |

## Product Details

- Low Coefficient of Thermal Expansion
- Precision and High Precision Options
- High Numerical Apertures to Maximize Throughput

TECHSPEC® UV Fused Silica Aspheric Lenses offer the benefits of an aspheric element combined with the manufacturing precision of state-of-the-art grinding and polishing equipment. These fused silica optics can be easily designed and integrated into complex optical systems with the available prescription data. Featuring low f/#'s, which allow for a larger aperture and thus more light gathering and focusing performance, these fused silica lenses are computer-optimized to eliminate spherical and minimize higher order aberrations. TECHSPEC® UV Fused Silica Aspheric Lenses offer a low coefficient of thermal expansion, making them ideal for applications in metrology, beam-focusing or collimating, and OEM integration. These lenses are available in a variety of coating options and are offered in sizes ranging from 10-50mm.

## Technical Information



UV FS Transmission Curve



## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Compatible Mounts